

Substitute for form 1449A/PTO OCT 25 2004 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete If Known			
				Application Number	10/087,153
				Filing Date	February 28, 2002
				First Named Inventor	PAVLOVSKAIA, ELENA
				Art Unit	3732
		Examiner Name	MANAHAN, TODD E.		
Sheet	1	of	10		
		Attorney Docket Number			
		018563-002910US			

U.S. PATENT DOCUMENTS+					
Examiner Initials	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Examiner Signature	Todd E. Manahan Patent Examiner	Date Considered	12-6-04
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Substitute for form 1449A/PTO		O I P E J C 12 OCT 25 2004 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	
Sheet 2 of 10		Complete If Known Application Number 10/087,153 Filing Date February 28, 2002 First Named Inventor PAVLOVSKAIA, ELENA Art Unit 3732 Examiner Name MANAHAN, TODD E. Attorney Docket Number 018563-002910US	

U.S. PATENT DOCUMENTS+				
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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)		
CT	EP	091,876	A1	10-10-1993	Duret	
CU	EP	299,490	A2	01-18-1999	Steinbichler et al.	
CV	EP	378,873	A2	07-04-1990	Shaffi	
CW	EP	490,848	B1	06-17-1992	Andersson et al.	
CX	EP	541,500	A1	06-12-1998	Andersson et al.	

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
CY	EP	731,073	-B1	09-18-1990	Andersson et al.			
CZ	EP	774,933	-B1	05-26-1997	Oden et al.			<input type="checkbox"/>
DA	FR	2,652,256	A1	03-20-1991	Jourde			<input type="checkbox"/>
DB	FR	2,909,320	A1	06-02-1978	Suyohiro			<input type="checkbox"/>
DC	WO	90/08,312	A1	06-09-1990	Lemoren			<input type="checkbox"/>
DE	WO	91/04,713	A1	04-18-1991	Jourde et al.			<input type="checkbox"/>
DE	WO	94/10,935	A1	05-26-1994	Andreiko et al.			<input type="checkbox"/>
DE	WO	98/44,865	A1	10-15-1998	Andersson			<input type="checkbox"/>
DG	WO	98/58,596	A1	12-30-1998	Chishti et al.			<input type="checkbox"/>

Examiner Signature

Todd E. Manahan

Date Considered

12 - 6 - 04

Primary Examiner

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		First Named Inventor	PAVLOVSKAIA, ELENA		
		Art Unit	3732		
		Examiner Name	MANAHAN, TODD E.		
Sheet	4	of	10	Attorney Docket Number	018563-002910US

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
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	DJ	ALTSCHEULER et al., "Measuring Surfaces Space Coded by a Laser Projected Dot Matrix," <i>SPIE Imaging Applications for Automated Industrial Inspection and Assembly</i> , vol. 182 (1979), p. 187-191.			
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	DM	American Association for Dental Research, Summary of Activities, March 20-23, 1980, Los Angeles, CA, p. 199.			
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Examiner Signature	Todd E. Manahan DENTAL FURNISHINGS	Date Considered	12-6-04
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	DY	<u>BRANDESTINI</u> et al., "Computer Machined Ceramic Inlays: In Vitro Marginal Adaptation," <u>Journal of Dental Research</u> , Vol. 64/Special Issue/Abstracts, IADR/AADR Abstracts 1985, 1 page total.			
	DZ	<u>BROOK</u> et al., "An Image Analysis System for the Determination of Teeth Dimensions from Study Casts: Comparison with Manual Measurements of Mesio-distal Diameter," <u>Abstracts of Papers</u> , 1986, <u>Dept. of Children's Dentistry and Orthodontics, J Dent Res.</u> , March 1986, pp. 428-431.			
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	EH	<u>CRAWFORD</u> , "CAD/CAM in the Dental Office: Does It Work?" <u>Canadian Dental Journal</u> , Vol. 57, No. 2 (Feb. 1991), pp. 121-123.			
	EI	<u>GROOKS</u> , "CAD/CAM Comes to USC," <u>USC Dentistry</u> , (Spring 1990) pp. 14-17.			
	EJ	<u>CURETON</u> , "Correcting malaligned mandibular incisors with removable retainers" <u>J. Clin. Orthod.</u> , 30:390-395, 1996.			
	EK	<u>CURRY</u> et al., "Integrated Three-Dimensional Craniofacial Mapping at the Craniofacial Research Instrumentation Laboratory/University of the Pacific," <u>Seminars in Orthodontics</u> , Vol. 7, No. 4 (Dec. 2001), pp. 250-265.			
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	EM	<u>DCS</u> <u>DentalLAG</u> , "The CAD/CAM DCS Titan System for Production of Crowns/Bridges" <u>DCS</u> <u>Production AG</u> , Jan. 1993, pp. 1-7.			

Examiner Signature	Todd E. Manahan Primary Examiner	Date Considered	12-6-04
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	EN	D'FRANCO et al., "Three Dimensional Large Displacement Analysis of Orthodontic Appliances," <i>J. Biomechanics</i> , Vol. 9 (1976), pp. 793-804.			T ²
	EO	Dental Institute University of Zurich Switzerland, Program for International Symposium on Computer Restorations: State of the Art of the CEREC-Method, May 1991, 3 pages total.			
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	EQ	BURET et al., "CAD/CAM in Dentistry," <i>Journal of the American Dental Association</i> , Vol. 117 (Nov. 1988), pp. 715-720.			
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	EX	FELTON et al., "A computerized analysis of the shape and stability of mandibular arch form," <i>Am. Journal of Orthodontics and Dentofacial Orthopedics</i> , Vol. 92, No. 6 (Dec. 1987), pp. 476-483.			
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	EZ	GIM-ALDENT Deutschland, "Das DUX System: Die Technik," 4 pages total.			
	FA	GRAYSON, "New Methods for Three Dimensional Analysis of Craniofacial Deformity," <i>Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery, AAOMS Sept. 13, 1990</i> , 3 pages total.			
	FB	GUESS et al., "Computer Treatment Estimates in Orthodontics and Orthognathic Surgery," <i>JCO</i> , (April, 1989), pp. 262-28.			
	FC	HEAVEN et al., "Computer-based Image Analysis of Artificial Root Surface Series," "Automated Identification of Landmarks in Cephalometric Radiographs," <i>Abstracts of Papers, Journal of Dental Research</i> , Vol. 67, March 9-13, 1988, 2 pages total.			

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	FD	HOFFMANN et al., "Role of Cephalometry for Planning of Jaw Orthopedics and Jaw Surgery Procedures," (Article Summary in English, article in German), <i>Informationen</i> , (March 1991), pp. 375-890.	
	FE	HUCKINS, "CAD-CAM Generated Mandibular Model Prototype from MRI Data," <i>AAOMS</i> 1999, p. 96.	
	FF	Inside the ADA, <i>Journal Of The American Dental Assoc.</i> , Vol. 118 (March 1989) 9 pages total.	
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	FI	JERROLD, "The problem, electronic data transmission and the law," <i>AJDO</i> , (Apr. 1988), pp. 478-479.	
	FJ	JONES et al., "An Assessment of the Fit of a Parabolic Curve to Pre- and Post-Treatment Dental Arches," <i>British Journal of Orthodontics</i> , Vol. 16 (1989), pp. 85-93.	
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	FL	KAMADA et al., "Construction of tooth positioners with LTV vinyl silicone rubber and some case reports" <i>J. Nihon University School of Dentistry</i> , 24(1):1-27, 1982.	
	FM	KANAZAWA et al., "Three-Dimensional Measurements of the Occlusal Surfaces of Upper Molars in a Dutch Population," <i>J. Dent Res.</i> , Vol. 63, No. 11 (Nov. 1984), pp. 1298-1301.	
	FN	KESLING, "Coordinating the predetermined pattern and tooth positioner with conventional treatment" <i>Am. J. Orthod. Oral. Surg.</i> , 32:285-293, 1945.	
	FO	KESLING, "The philosophy of the tooth positioning appliance" <i>Am. J. Orthod. Oral. Surg.</i> , 31(6):297-304, 1945.	
	FP	KLEEMANN et al., "The speed positioner" <i>J. Clin. Orthod.</i> , 30:673-680, 1996.	
	FQ	KITRODA et al., "Three-dimensional dental cast analyzing system using laser scanning" <i>Am. J. Orthod. Dentofac. Orthop.</i> , 110:305-309, 1996.	
	FR	LAURENDEAU et al., "A Computer-Vision Technique for the Acquisition and Processing of 3-D Profiles of Dental Imprints: An Application in Orthodontics," <i>IEEE Transactions on Medical Imaging</i> , Vol. 10, No. 3 (Sept. 1991), pp. 453-461.	
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Examiner Signature	Todd E. Manahan Primary Examiner	Date Considered	12-6-04
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U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/087,153
				Filing Date	February 28, 2002
				First Named Inventor	PAVLOVSKAIA, ELENA
				Art Unit	3732
				Examiner Name	MANAHAN, TODD E.
Sheet	8	of	10	Attorney Docket Number	018563-002910US

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	FT	<u>MCHAMARA et al., Orthodontic and Orthopedic Treatment in the Mixed Dentition</u> , Needham Press, January 1993, pp.347-353.			T ²
	FU	<u>MCHAMARA et al., "Invisible Retainers"</u> , J. Clinical Orthodontics, (August 1985) pp. 570-578.			
	FV	<u>MÖERMANN et al., "Computer-Machined Adhesive Porcelain Inlays: Margin Adaptation after Fatigue Stress"</u> , IADR Abstract 230, Journal of Dental Research, vol. 66(a) (1987), p. 339.			
	FW	<u>MÖRMANN et al., "Marginal Adaptation von adhasiven Porzellinanlays In vitro"</u> , Schweizerische Monatsschrift für Zahnmedizin, Vol. 85 (1985), p. 1118-1129.			
	FX	<u>MÖRMANN et al., "Marginal Adaptation von adhasiven Porzellinanlays in vitro"</u> , Separatdruck aus: Schweiz. Mschr. Zahnmed. 95: 1118, 1985.			
	FY	<u>NAHOUM, "The vacuum-formed dental contour appliance"</u> The New York State Dental Journal, 30(9):385-390, Nov. 1964.			
	FZ	<u>NASH, "CEREC CAD/CAM Inlays: Aesthetics and Durability in a Single Appointment"</u> , Dentistry Today, (October 1990), pp. 20, 22-23, 54.			
	GA	<u>NISHIYAMA et al., "A new construction of tooth repositioner by LTV vinyl silicone rubber"</u> J. Nihon University School of Dentistry, 19(2):93-102, 1977.			
	GB	<u>PINKHAM, "Feeble Concept Propels Technology"</u> , Dentist, Jan/Feb. 1989, 3 pages total.			
	GC	<u>PINKHAM, "Inventor's CAD/CAM may transform dentistry"</u> , Dentist, Sept. 1990, 3 pages total.			
	GD	<u>RONITZ, Invisible Retainers</u> , 59 Am. J. Orthodontics, March 1971, pp. 268-272.			
	GE	<u>Procera Research Projects, PROCERA Research Projects 1993 — Abstract Collection, 1993</u> , pp. 3-28.			
	GF	<u>REKOW, "A Review of the Developments in Dental CAD/CAM Systems"</u> (contains references to Japanese efforts and content of the papers of particular interest to the clinician are indicated with a one-line summary of their content in the bibliography), Dental Clinics: Prosthodontics and Endodontics, pp. 25-33, 1992.			
	GG	<u>REKOW, "CAD/CAM in Dentistry: A Historical Perspective and View of the Future"</u> , Journal, Vol. 58 No. 4, (April 1992), pp. 283-287.			
	GH	<u>REKOW, "Computer-Aided Design and Manufacturing in Dentistry: A Review of the State of the Art"</u> , The Journal of Prosthetic Dentistry, Vol. 58, No. 4 (Oct. 1987), pp. 512-518.			
	GI	<u>REKOW, "Dental CAD-CAM Systems: What is the State of the Art?"</u> Journal of the American Dental Assoc., Vol. 122 (1991), pp. 43-48.			

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	GJ	REKOW, "Feasibility of an Automated System for Production of Dental Restorations," <u>PhD Thesis, Univ. of Minnesota, Nov. 1988, 244 pages total.</u>			T ²
	GK	RICHMOND et al., <u>Research Reports, "The development of a 3D Cast Analysis System," British Journal of Orthodontics, pp. 53-54.</u>			
	GL	RICHMOND, "Recording the dental cast in three dimensions," <u>Am. J. Orthod. Dentofac. Orthop., Vol. 82, No. 3, (Sept. 1987), pp. 199-206.</u>			
	GM	RUDGE, "Dental arch analysis: arch form, A review of the literature," <u>European Journal of Orthodontics, Vol. 3, No. 4 (1981), pp. 279-284.</u>			
	GN	SAKUDA et al., "Integrated information processing system in clinical orthodontics: An approach with use of a computer network system," <u>Am. J. Orthod. Dentofac. Orthop., Vol. 101 No. 3 (March 1992), pp. 210-220.</u>			
	GO	SCHELLHAS et al., "Three-Dimensional Computer Tomography in Maxillofacial Surgical Planning," <u>Arch. Otolaryngol Head Neck Surg., Vol. 114 (April 1988), pp. 438-442.</u>			
	GP	SEGU et al., "Computer-aided Cephalometry and New Mechanics in Orthodontics" (Article Summary in English, article in German), <u>Fortschr. Kieferorthop. 44, 370-376 (Nr. 3), 1983</u>			
	GQ	SHILLIDAY, "Minimizing finishing problems with the mini-positioner," <u>Am. J. Orthod. 59:598-599, 1974</u>			
	GR	Siemens, "CEREC - Computer Reconstruction," <u>High Tech in der Zahnmedizin, 14 pages total.</u>			
	GS	Sirona Dental Systems GmbH, CEREC 3D, <u>Manuel utilisateur, Version 2.0X (in French), 2093, 114 pages total.</u>			
	GT	STOLL et al., "Computer-aided Technologies in Dentistry" (Article Summary in English, article in German), <u>Dtsch Zahnärztl Z 45, 314-322, 1990.</u>			
	GU	U.S. Department of Commerce, National Technical Information Service, "Automated Crown Replication Using Solid Photography SM," <u>Solid Photography Inc. Melville NY, October 1977, 21 pages total.</u>			
	GV	U.S. Department of Commerce, National Technical Information Service, "Holography: An Introduction to Dental Laser Holography," <u>School of Aerospace Medicine Brooks AFB Tex, March 1973, 37 pages total.</u>			
	GW	U.S. Provisional Patent Application No. 60/050342, filed on June 20, 1997, 41 pages total.			
	GX	VAN DER LINDEN et al., "Three-Dimensional Analysis of Dental Casts by Means of the Optocom," <u>Dent Res, July-August 1972, p. 1101.</u>			
	GY	VAN DER LINDEN, "A New Method to Determine Tooth Positions and Dental Arch Dimensions," <u>July-August 1972, p. 1104.</u>			

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PTO/SB/08B (08-03)

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				Art Unit	3732
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	GZ	VANDER ZEL, "Ceramic-fused-to-metal Restorations with a New CAD/CAM System," <i>Quintessence International</i> , vol. 24(11) (1993), pp. 769-770.	
	HA	VARADY et al., "Reverse Engineering of Geometric Models - An Introduction," May 13, 1996, pp. 1-28.	
	HB	WARUNEK et al., "Clinical use of silicone elastomer appliances" <i>JCO, MH</i> (10):604-700, 1989.	
	HC	WARUNEK et al., "Physical and mechanical properties of elastomers in orthodontic positioners" <i>Am. J. Orthod. Dentofac. Orthop.</i> , 95:388-400, 1989.	
	HD	WELLS, "Application of the positioner appliance in orthodontic treatment" <i>Am. J. Orthodont.</i> , 58:351-366, 1970.	
	HE	WILLIAMS, "Dentistry and CAD/CAM: Another French Revolution," <i>Journal of Dental Practice Admin.</i> , Jan./March 1987, pp. 2-5.	
	HF	WILLIAMS, "The Switzerland and Minnesota Developments in CAD/CAM," <i>Journal of Dental Practice Admin.</i> , pp. 50-55, April/June 1987.	
	HG	WICHAM, "New Advances in Personal Computer Applications for Cephalometric Analysis, Growth Prediction, Surgical Treatment Planning and Imaging Processing," <i>Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery, AACOMS</i> , Sept. 18, 1990, p. 5.	
	HH	YAMAMOTO et al., "Three-Dimensional Measurement of Dental Cast Profiles and Its Applications to Orthodontics," <i>Annual Int'l Conf. of IEEE Engineering in Medicine and Biology Society</i> , Vol. 12, No. 5, pp. 2051-2053, 1990.	
	HI	YAMAMOTO et al., "Optical measurement of dental cast profile and application to analysis of three-dimensional tooth movement in orthodontics," <i>Frontiers in Med. and Biol. Eng'g</i> , Vol. 1, No. 2 (1986), pp. 119-130.	

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